

# Complete Transportation Framework

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# Legislation

- AB 32 and SB 32: Global Warming Solutions Act
  - Mandates 40% GHG reductions of 1990 levels by 2030.
  - California Air Resources Board updating the Climate Change Scoping Plan SB 375: Sustainable Communities
  - Mandates regional GHG targets adopted by CARB and regional development of sustainable community strategies to achieve targets
- SB 391: California Transportation Plan
  - Mandates Caltrans develop CTP and update every 5 years. Primary goal of reducing GHG to 80% below 1990 levels by 2050
- SB 743: Environmental Quality, Transit Oriented Infill
  - Mandates evaluation of alternatives to “level of service” for evaluating transportation impacts of development projects. Alternatives include VMT and VMT/capita
- SB 486: Caltrans Planning and Programming
  - More transparency and accountability on Interregional Transportation Strategic Plan (ITSP), Interregional Transportation Improvement Program (ITIP) and State Highway Operation and Protection Program (SHOPP).
  - Requires the California Transportation Commission (CTC) to adopt the SHOPP biennially and approve project changes.

# Executive Orders

- Executive Order B-30-15
  - State agencies shall take climate change into account in planning and investment decisions, and employ full life-cycle cost accounting (LCCA) to evaluate and compare infrastructure investments and alternatives
  - Ultimate goal of reducing emissions 80 percent under 1990 levels by 2050
- Executive Order B-16-12
  - 1.5 million zero emission vehicles (ZEV) on California roadways by 2025.
  - Establish infrastructure that can support increased public and private sector ZEVs.
  - State agencies replace at least 10% of fleet vehicle purchases with ZEVs by 2015, and at least 25% of fleet vehicle purchases with ZEVs by 2020.
- Executive Order B-32-15
  - Develop an integrated action plan by July 2016 that establishes clear targets to improve freight efficiency, transition to zero-emission technologies, and increase competitiveness of California's freight system.
- Executive Order B-18-12
  - State agencies take actions to reduce entity-wide greenhouse gas emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline

# Caltrans Policies

- Sustainability - Director's Policy(DP) 33
  - Apply sustainability principles in the planning, design, construction, maintenance and operation of California's integrated multimodal transportation system.
- Climate Change - DP 30
  - Caltrans promotes measures, practices, and business operations to minimize GHG emissions.
- Complete Streets – Deputy Directive 64
  - A transportation facility that is planned, designed, operated, and maintained to provide safe mobility for all users, including bicyclists, pedestrians, transit riders, and motorists appropriate to the function and context of the facility.

# Vision

Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability

# 2015-2020 Caltrans Strategic Management Plan

- **Safety and Health:** Provide a safe transportation system for workers and users, and promote health through active transportation and reduced pollution in communities.
- **Stewardship and Efficiency:** Money counts. Responsibly manage California's transportation-related assets.
- **Sustainability, Livability and Economy:** Make long-lasting, smart mobility decisions that improve the environment, support a vibrant economy, and build communities, not sprawl.
- **System Performance:** Utilize leadership, collaboration and strategic partnerships to develop an integrated transportation system that provides reliable and accessible mobility for travelers.
- **Organizational Excellence:** Be a national leader in delivering quality service through excellent employee performance, public communication, and accountability.

# Department Priorities

- Sustainability
- Complete Streets
- Climate Change
- Health and Safety
- Asset Management

# Challenges

- Existing Silos
- Lack of Program Communication
- Lack of Timely Data and Data Sharing
- Single Asset Projects
- Lack of Internal and External Coordination
- Lack of Influence in Programming Decision Making
- Lack of Multimodal Analysis and Needs



# Stakeholders

- Planning
- Programming
- Asset Management
- Sustainability
- Project Delivery (COS)
- Maintenance
- Traffic Operations

# Complete Transportation Framework Purpose

- Partnerships between Caltrans and local and regional agencies
- Shared vision with communities and transportation partners
- Transparent decision-making and clear communication
- Strategic Approach to Planning, Project Delivery, Maintenance, and Operations
- Performance Measures in Planning, Project Delivery, Maintenance, and Operation

# Complete Transportation Framework Diagram

Define System Needs





# Defining System Needs

## Local/Regional

- General/Specific Plans
- Main Street/Community Plans
- Bike/Ped Plans
- Transit Plans
- Regional Transportation Plans

## Asset Management

- Collision Reduction
- Mandates (e.g. ADA)
- Mobility (e.g. ITS)
- Bridge
- Roadway
- Roadside
- Zero Emission Charging

## Multi-Modal Transportation

- Active Transportation
- Freight Planning
- Transit Connectivity
- Resiliency and Climate Change
- Transportation Operations

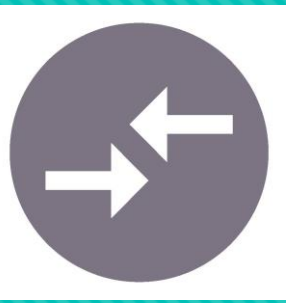
## Environmental

- Wildlife Connectivity
- Fish Passage
- Resiliency and Climate Change



# Document System Wide Needs

- Centralized Data Base - Develop centralized geospatially enabled database that includes Caltrans, local, and regional needs; asset conditions; and system conditions.



# Analyze Corridor Needs

- Multi-disciplinary approach
- Corridor Analysis
  - Move beyond the TCR and leverage latest GIS technology
  - Define goals, objectives and performance measures for all routes/corridors (with initial focus on priority routes)
- Asset Specific Analysis
  - Physical Asset Needs
  - System Deficiencies



# Identify Projects

## ○ Identify Projects

- Multi-disciplinary process that defines the complete project—what is in scope and what is not in scope and why.
- Multi-objective project selection and prioritization
- Applying performance criteria
- Develop integrated and multi-objective PIDs



# Fund and Deliver Projects



## ○ Programming

- Projects adopted by the California Transportation Commission
- Confirm Deliverability
- Project Level Accountability
  - Performance measures and outputs
  - Scope, cost, and schedule

## ○ Project Delivery

- Project Approval and Environmental Document
- Plans, Specifications, and Estimates
- Acquire Right-of-Way and Obtain Approval Permits
- Construct Project
- Project Closeout





# Maintain and Operate Infrastructure

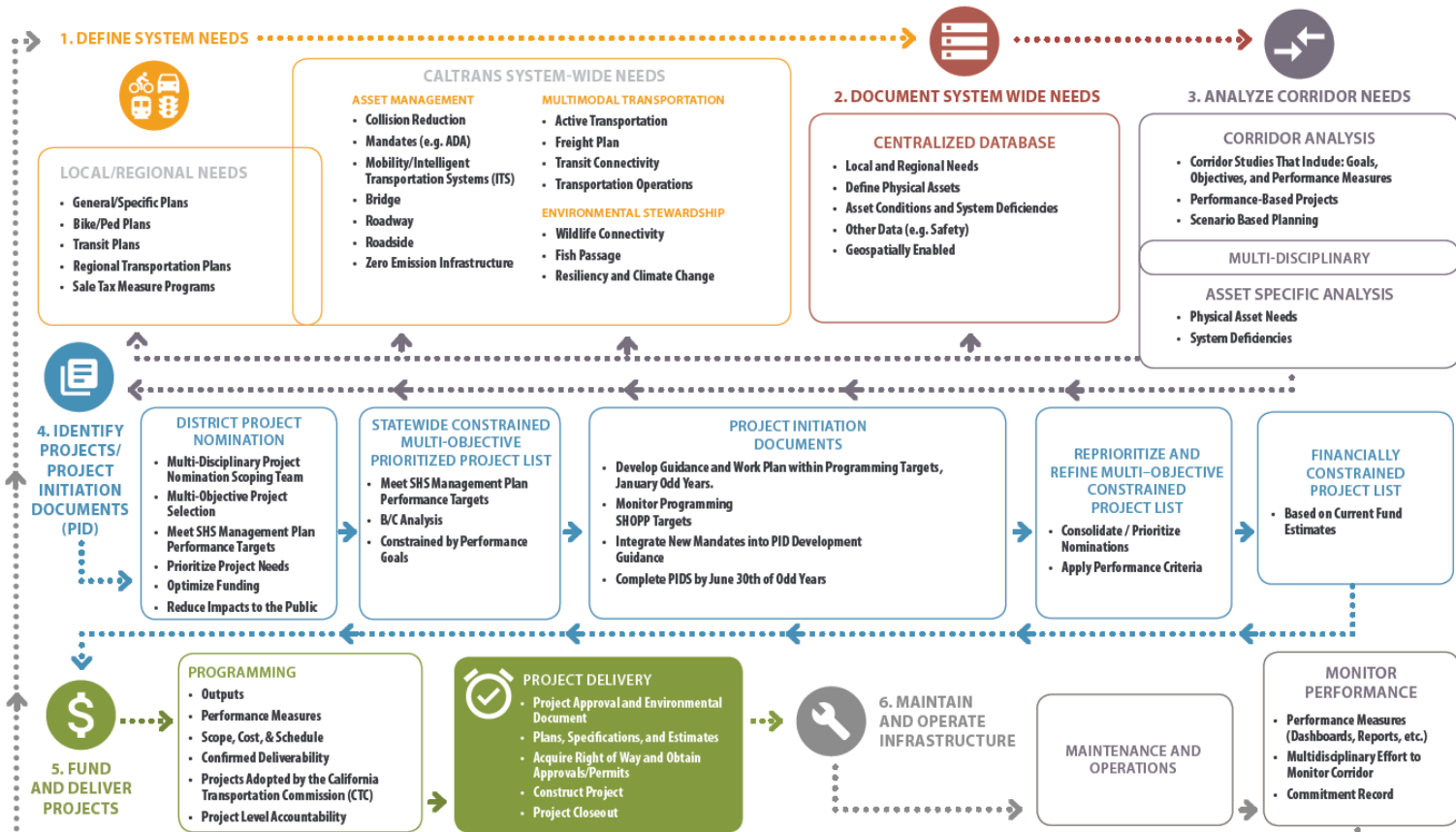
- Maintenance and Operations
- Monitor Performance
  - Performance Measures
  - Multidisciplinary Effort to Monitor Corridors
  - Commitment Record

# Complete Transportation Framework



## Complete Transportation Framework (WORKING DRAFT)

Internal Use Only



1. Assumed that there is a constant refinement of: a) schedule/time horizon; b) cost throughout process; and c) Caltrans planning objectives and performance targets.  
2. Assumed that the following will be incorporated in all processes: 1) Safety, 2) Livability, 3) Prosperity, 4) Accessibility, 5) Health, 6) Equity, and 7) Performance Measures.

# Priority Initiatives

- System Planning Revision
- Project Nomination Process
- Centralized Database

# Questions

Thank you!!!